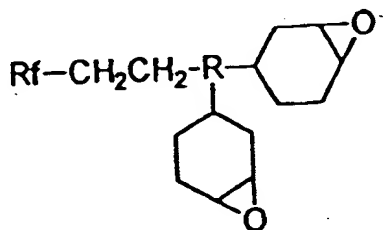
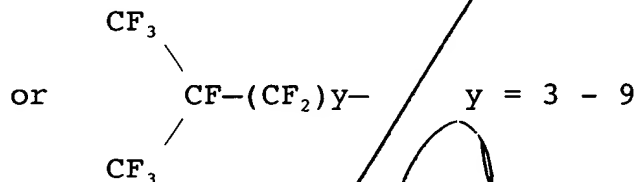
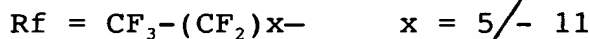


sub. 12. A fluorine-containing epoxy resin
composition comprising:

an epoxy compound represented by the following
Formula (A-1):



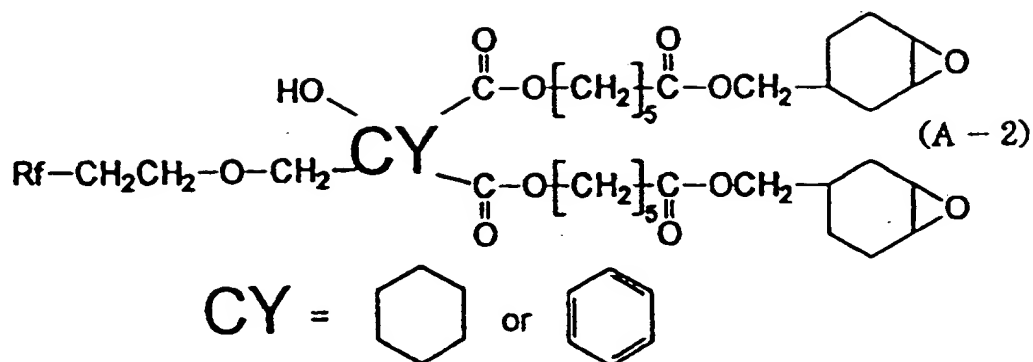
(A-1)



wherein R is an aliphatic residue for linking monomers each
having an alicyclic epoxy group, and
a cationic polymerization catalyst.

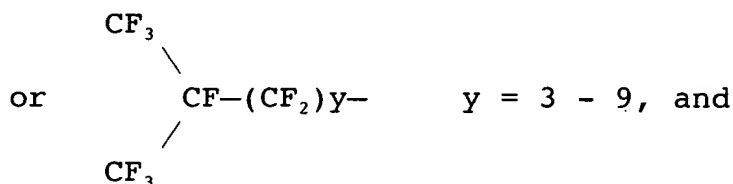
2. 13. A fluorine-containing epoxy resin composition
comprising:

an epoxy compound represented by the following
Formula (A-2):



TO 500

$$\text{Rf} = \text{CF}_3-(\text{CF}_2)_x- \quad x = 5 - 11$$



a cationic polymerization catalyst.

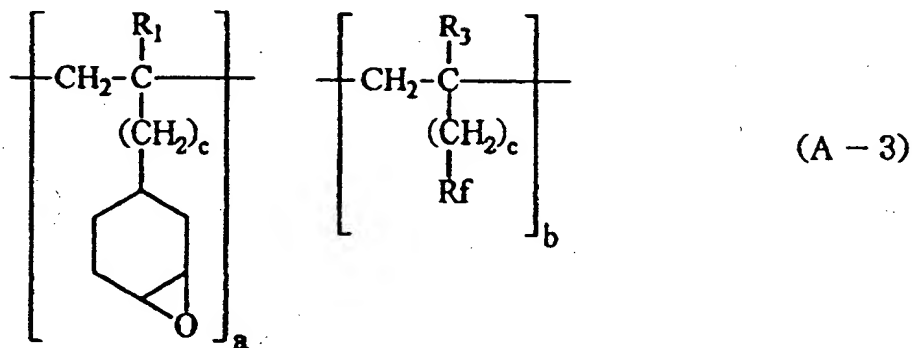
B1
cont

3.
14. A fluorine-containing epoxy resin having in one molecule at least one perfluoroalkyl group having 6 to 12 carbon atoms and at least two alicyclic epoxy groups, and a cationic polymerization catalyst, wherein the resin comprises a monomer unit having a C-C bond, the C-C bond constituting the main chain of the resin.

4.
15. The fluorine-containing epoxy resin composition according to claim 14, wherein the fluorine-

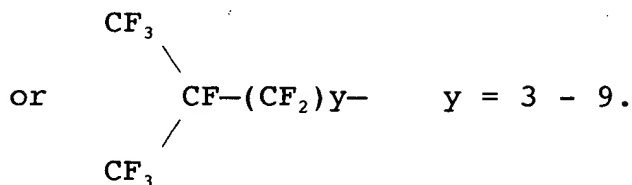
3

containing epoxy resin is an epoxy polymer represented by the following Formula (A-3):



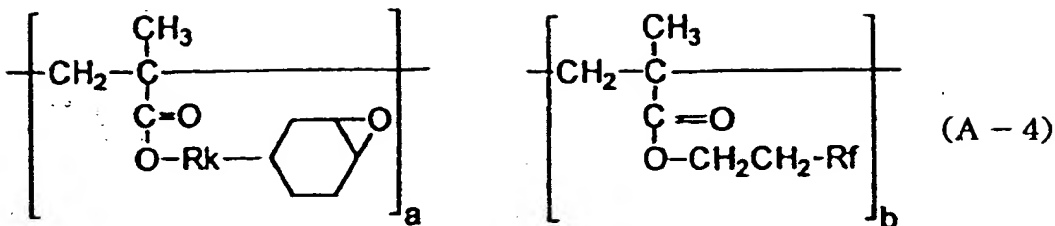
$$\begin{aligned} R_1, R_3 &= \text{H or CH}_3 & a &= 2 - 50 \\ & & b &= 2 - 50 \\ & & c &= 0 - 3 \end{aligned}$$

$$\text{Rf} = \text{CF}_3 - (\text{CF}_2)_x - \quad x = 5 - 11$$



5. The fluorine-containing epoxy resin composition according to claim ~~14~~³, wherein the fluorine-containing epoxy resin is an epoxy polymer represented by the following Formula (A-4):

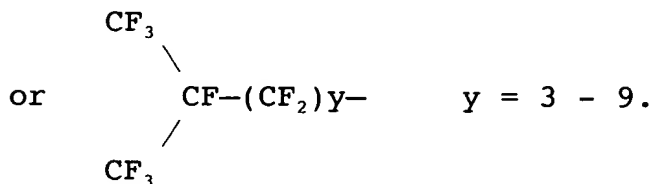
B



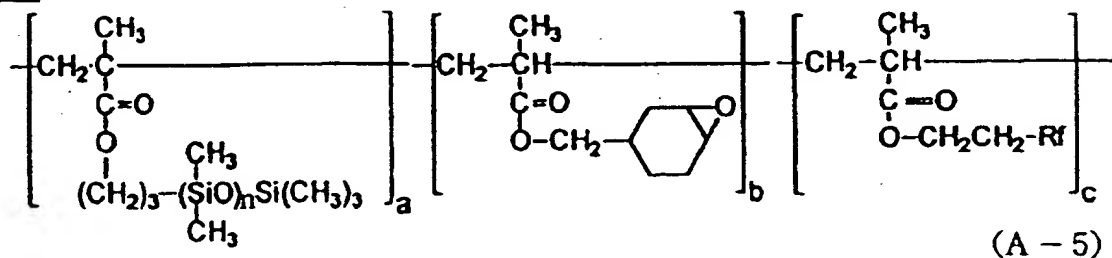
$$\text{Rk} = \text{CH}_2, \quad -\left[(\text{CH}_2)_5 - \text{COO} \right]_p \text{CH}_2 - \quad p = 1 - 3$$

$$a = 2 - 50 \quad b = 2 - 50$$

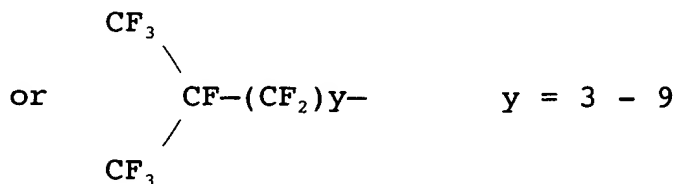
$$\text{Rf} = \text{CF}_3 - (\text{CF}_2)_x - \quad x = 5 - 1$$



6.
17. The fluorine-containing epoxy resin composition according to claim ³14, wherein the fluorine-containing epoxy resin is an epoxy polymer represented by the following Formula (A-5):



$$\text{Rf} = \text{CF}_3 - (\text{CF}_2)_x - \quad x = 5 - 11$$



$$a = 1 - 50 \quad b = 2 - 100$$

$$c = 1 - 50 \quad n = 2 - 100.$$

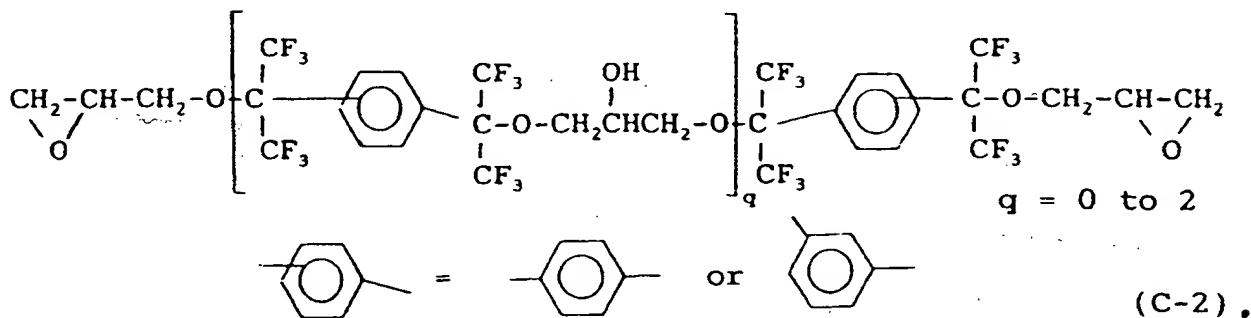
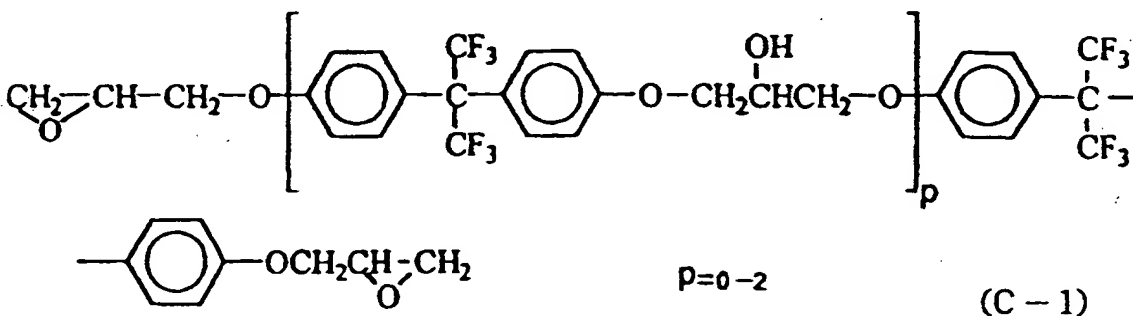
7.

18.

A fluorine-containing epoxy resin composition comprising:

a fluorine-containing epoxy resin having in one molecule at least one perfluoroalkyl group having 6 to 12 carbon atoms and at least two alicyclic epoxy groups, and a cationic polymerization catalyst,

wherein the resin composition further comprises, as a compatibilizing agent, at least one of compounds represented by the following Formulas (C-1) and (C-2):



⁸
~~19~~. A surface treatment process for treating a surface of a substrate selectively, which comprises successively:

a first step of applying the fluorine-containing epoxy resin composition according to any one of Claims ~~12~~ ¹ to ~~14~~ ³ and ~~16~~ ⁷ onto a substrate and drying the applied resin composition;

a second step of irradiating the applied composition with activation energy radiation in a pattern through a mask;

B₁
cont.
a third step of dissolving and removing a part of the applied composition not irradiated with the activation energy radiation, by use of a liquid capable of dissolving the uncured composition; and if desired

a fourth step of post-curing the remaining composition.

⁹
~~20~~. A surface treatment process for treating a surface of a substrate selectively, which comprises successively:

a first step of applying the fluorine-containing epoxy resin composition according to any one of Claims ~~12~~ ¹ to

³
~~14~~ and ⁷~~18~~ onto a substrate and drying the applied resin composition;

a second step of heating or irradiating with activation energy radiation the applied composition to effect polymerization and curing over a whole area thereof;

a third step of selectively irradiating the cured composition with breaking activation energy radiation to partly remove the cured composition; and if desired

a fourth step of post-curing the remaining composition.

B,
cont.
¹⁶
~~21~~. An ink jet recording head having a discharge opening surface with a discharge opening for discharging a recording liquid therethrough, wherein at least a discharge opening formed portion of the discharge opening surface is coated with a cured film comprising the fluorine-containing epoxy resin composition as set forth in any one of Claims ¹²~~12~~ to ³~~14~~ and ⁷~~18~~.

¹¹
~~22~~. An ink jet recording apparatus comprising the ink jet recording head as set forth in claim ¹⁰~~21~~.--